

Please type a plus sign (+) inside this box → +


EL 967 947705

PTO/SB/08A (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known													
Sheet 1 of 3		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td></td> </tr> <tr> <td>Filing Date</td> <td></td> </tr> <tr> <td>First Named Inventor</td> <td>Gerald W. Hagel</td> </tr> <tr> <td>Group Art Unit</td> <td></td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td>SAS/48</td> </tr> </table>		Application Number		Filing Date		First Named Inventor	Gerald W. Hagel	Group Art Unit		Examiner Name		Attorney Docket Number	SAS/48
Application Number															
Filing Date															
First Named Inventor	Gerald W. Hagel														
Group Art Unit															
Examiner Name															
Attorney Docket Number	SAS/48														

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
JPK		170576		Malcolm	11/30/1875	
		517,305		Schlueter	03/27/1894	
		874,876		Taylor	12/24/1907	
		965,129		Walker	07/19/1910	
		1,060,791		Schaller	05/06/1913	
		3,036,819		Peterson	05/29/1962	
		3,945,603		Fraser	03/23/1976	
		4,003,403		Nehring	01/18/1977	
		4,200,478		Jacino et al.	04/29/1980	
		4,203,517		Hildebrandt et al.	05/20/1980	
		4,360,994		Hodges	11/30/1982	
		4,555,286		Orikasa et al.	11/26/1985	
		4,555,295		Orikasa et al.	11/26/1985	
		4,622,085		Yamada et al.	11/11/1986	
		4,787,186		Irmischer	11/29/1988	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T²
		Office³	Number⁴	Kind Code⁵ (if known)				
			WO 92/16707		Coundouris	10/01/1992		

Examiner Signature [Signature]	Date Considered 10/04
---	--

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

IDS pg 3 of 8

Please type a plus sign (+) inside this box → +

EL 961941/03

PTO/SB/08A (10-96)

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known	
	Application Number			
	Filing Date			
	First Named Inventor	Gerald W. Hagel		
	Group Art Unit			
	Examiner Name			
Sheet 2	of 3	Attorney Docket Number	SAS/48	

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
JL		4,858,759		Mauthe et al.	08/22/1989	
		4,961,883		Jacino et al.	10/09/1990	
		4,986,862		Matsufuru	01/22/1991	
		5,092,492		Centea	03/03/1992	
		5,186,949		Lai	02/16/1993	
		5,310,091		Dunning et al.	05/10/1994	
		5,350,084		Miller et al.	09/27/1994	
		5,370,221		Magnusson et al.	12/06/1994	
		5,433,354		Jacobsen et al.	07/18/1995	
		5,458,275		Centea et al.	10/17/1995	
		5,467,899		Miller	11/21/1995	
		5,535,922		Maziarz	07/16/1996	
		5,566,860		Schiltz et al.	10/22/1996	
		5,765,729		Miller et al.	06/16/1998	
		5,809,736		Naito et al.	09/22/1998	
		5,884,759		Gueret	03/23/1999	
		5,893,486		Wasmire	04/13/1999	
		5,944,226		Schiltz et al.	08/31/1999	
	5,984,152		Jacobsen et al.	11/16/1999		
	6,065,641		Laguna Valderrama	05/23/2000		

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
				</				

Examiner Signature		Date Considered	10/04
-----------------------	--	--------------------	-------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number. ³ See attached Kinds of U.S. Patent Documents. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

IDS Pg 1 of 8

Please type a plus sign (+) inside this box → +

EL 967947705

PTO/SB/08A (10-96)

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	
		Filing Date	
		First Named Inventor	Gerald W. Hagel
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	SAS/48
Sheet	3	of	3

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
X		6,074,582		Jacino et al.	06/13/2000	
		6,105,822		Larsen et al.	08/22/2000	
		6,129,249		Jacobsen et al.	10/10/2000	
		6,241,125		Jacobsen et al.	06/05/2001	
		3,140,078		Krahe et al	07/07/1964	
		3,153,531		Cook	10/20/1964	
		3,164,303		Trautmann	01/05/1965	
		3,195,778		Coates	07/20/1965	
		3,475,010		Cook et el	10/28/1969	
		4,371,094		Hutter	02/01/1983	
		5,951,160		Ronk	09/14/1999	
		2002/0101785 A1		Edwards et al	08/01/2002	
		4861401		Miyra et al	08/1989	
		5155965		Tabai et al	10/1992	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (If known)				
				</				

Examiner Signature	Date Considered	10/04
--------------------	-----------------	-------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Ids Pg 5 of 8

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			<i>Complete if Known</i>	
			Application Number	
			Filing Date	
			First Named Inventor	Gerald W. Hagel
			Group Art Unit	
			Examiner Name	
Sheet 1	of 1	Attorney Docket Number	SAS/48	

[illegible]

Examiner Signature		Date Considered	10/04
-----------------------	---	--------------------	-------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

IDS pg 6 of 8